



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/734,372
Source: oipe
Date Processed by STIC: 12-30-03

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 703-308-4212; FAX: 703-308-4221

Effective 12/13/03: TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkr41note.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry directly to (EFFECTIVE 12/01/03):
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 10/08/03

Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER: 10/734,372
ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE		
1 _____ Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."	
2 _____ Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.	
3 _____ Misaligned Amino Numbering	The numbering under each 5 th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.	
4 _____ Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.	
5 _____ Variable Length	Sequence(s) _____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.	
6 _____ PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.	
7 _____ Skipped Sequences (OLD RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.	
8 _____ Skipped Sequences (NEW RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000	
9 _____ Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.	
10 <input checked="" type="checkbox"/> Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence	
11 _____ Use of <220>	Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 00/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)	
12 _____ PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.	
13 _____ Misuse of n/Xaa	"n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid	



IFWO

RAW SEQUENCE LISTING

DATE: 12/30/2003

PATENT APPLICATION: US/10/734,372

TIME: 13:40:44

Input Set : A:\parkinsonsutility.ST25.txt

Output Set: N:\CRF4\12302003\J734372.raw

3 <110> APPLICANT: St. Jude Children's Research Hospital
 4 University of Tennessee Research Corporation
 5 Smeyne, Richard J.
 6 Tharp, Ruby
 7 Smeyne, Michelle
 8 Williams, Robert
 10 <120> TITLE OF INVENTION: Method for Determining Sensitivity to Environmental Toxins
 and
 11 Susceptibility to Parkinson's Disease
 13 <130> FILE REFERENCE: 023868.43877
 C--> 15 <140> CURRENT APPLICATION NUMBER: US/10/734,372
 C--> 15 <141> CURRENT FILING DATE: 2003-12-12
 15 <150> PRIOR APPLICATION NUMBER: 60/433,437
 16 <151> PRIOR FILING DATE: 2002-12-13
 18 <160> NUMBER OF SEQ ID NOS: 71
 20 <170> SOFTWARE: PatentIn version 3.2
 22 <210> SEQ ID NO: 1
 23 <211> LENGTH: 630
 24 <212> TYPE: DNA
 25 <213> ORGANISM: Mus sp.
 27 <400> SEQUENCE: 1
 28 atgcgcgcgt acaccattgt ctacttccca agtcgagggc ggtgtgaggg catgcgcatg 60
 30 ctgctgactg accagggcca gagctggaag gaggaggtgg ttaccataga tacctggatg 120
 32 caaggettgc tcaagccac ttgtctgtat gggcagcttc ctaagtttga ggatggagac 180
 34 ctcacccttt accaatctaa tgccatcttg agacaccttg gccgctcttt ggggctttat 240
 36 gggaaaaacc agagggaggg cgcccaggtg gatatggtga atgatgggg agaggacctt 300
 38 cgcggaat atggcaccat gatctacaga aactatgaga atggttaagaa tgactacgtg 360
 40 aaggccctgc ctgggcatct gaagccttt gagacctgc tgtcccagaa ccaggagggc 420
 42 aaagctttca tegtgggtga ccagatctcc tttgccgatt acaacttgct ggacctgctg 480
 44 ctgatccacc aagtcctggc cctggctgc ctggacaact tccccctgct ctctgcctat 540
 46 gtggctcgcc tcagtgcgcg gcccaagatc aaggcctttc tgtcctcccc ggaacatgtg 600
 48 aaccgtccca tcaatggcaa tggcaaacag 630
 51 <210> SEQ ID NO: 2
 52 <211> LENGTH: 350
 53 <212> TYPE: DNA
 54 <213> ORGANISM: Mus sp.
 56 <400> SEQUENCE: 2
 57 ggccatgctg atgctgctga ctgaccaggg ccagagctgg aaggaggagg tgggtgggcag 60
 59 cttcctaagt ttgaggatgg agacctcacc ctttaccat gactacgtga aggcctgccc 120
 61 tgggcatctg aagccttttg agacctgct gtcccagaac caggagggca acagatctcc 180
 63 tttgccgatt acaacttgct ggacctgctg ctgatccacc aagtcctggc cctggctgc 240
 65 ctggacaact tccccctgct ctctgcctat gtggctcgcc tcagtgcgcg gcccaagatc 300
 67 aaggcctttc tgtcctcccc ggaacatgtg aaccgtccca tcaatggcaa 350
 70 <210> SEQ ID NO: 3

Does Not Comply
 Corrected Diskette Needed
 P.2-5

RAW SEQUENCE LISTING

DATE: 12/30/2003

PATENT APPLICATION: US/10/734,372

TIME: 13:40:44

Input Set : A:\parkinsonsutility.ST25.txt

Output Set: N:\CRF4\12302003\J734372.raw

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71 <211> LENGTH: 350
72 <212> TYPE: DNA
73 <213> ORGANISM: Homo sapiens
75 <400> SEQUENCE: 3
76 ggccctgcgc atgctgctgg cagatcaggg ccagagctgg aaggaggagg tgggtgggcag      60
77 ctccccaagt tccaggacgg agacctcacc ctgtaccaat gactatgtga aggcactgcc      120
78 cgggcaactg aagccttttg agacctgct gtcccagaac caggagggca acagatctcc      180
79 ttctgctgact acaacctgct ggacttgctg ctgatccatg aggtcctagc ccctggctgc      240
80 ctggatgcgt tccccctgct ctcagcatat gtggggcgcc tcagtgcccg gcccaagctc      300
81 aaggccttcc tggcctcccc tgagtacgtg aacctcccca tcaatggcaa      350
89 <210> SEQ ID NO: 4
90 <211> LENGTH: 630
91 <212> TYPE: DNA
92 <213> ORGANISM: Mus sp.
94 <400> SEQUENCE: 4
95 atgccaccat acaccattgt ctacttccca gttcgagggc ggtgtgaggc catgcgaatg      60
96 ctgctggctg accagggcca gagctggaag gaggaggtgg ttaccataga tacctggatg      120
97 caaggcttgc tcaagcccac ttgtctgtat gggcagctcc ccaagtttga ggatggagac      180
98 ctacaccttt accaatctaa tgccatcttg agacaccttg gccgctcttt ggggctttat      240
99 gggaaaaacc agaggagggc cgcccagatg gatatgggtg atgatggggt ggaggacctt      300
100 cgcgggcaaat atgtcacctc catctacacc aactatgaga atggtaagaa tgactacgtg      360
101 aaggccctgc ctgggcatct gaagcctttt gagaccttgc tgtcccagaa ccaggagggc      420
102 aaagctttca tctgtgggtg ccagatctcc ttgtccgatt acaacttgct ggacctgctg      480
103 ctgatccacc aagtctctgg ccctggctgc ctggacaact tccccctgct ctctgcctat      540
104 gtggctcgcc tcagtgcccg gcccaagatc aaggccttcc tgtcctcccc ggaacatgtg      600
105 aaccgtccca tcaatggcaa tggcaaacag      630
118 <210> SEQ ID NO: 5
119 <211> LENGTH: 26
120 <212> TYPE: DNA
121 <213> ORGANISM: Synthetic see item 10 on error summary
122 <220> FEATURE: report.
W--> 125 <221> NAME/KEY: feature/Miscellaneous
126 <222> LOCATION: (1)..(26) space
127 <223> OTHER INFORMATION: Primer
129 <400> SEQUENCE: 5
130 gcacttgcca gcttcaggtg aattca      26
133 <210> SEQ ID NO: 6
134 <211> LENGTH: 26
135 <212> TYPE: DNA
136 <213> ORGANISM: Synthetic
139 <220> FEATURE:
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141 <222> LOCATION: (1)..(26) space
142 <223> OTHER INFORMATION: Primer
144 <400> SEQUENCE: 6
145 gtcaggtagc ttcaggcaga accaca      26
148 <210> SEQ ID NO: 7
149 <211> LENGTH: 15
150 <212> TYPE: DNA

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/734,372

DATE: 12/30/2003

TIME: 13:40:44

Input Set : A:\parkinsonsutility.ST25.txt

Output Set: N:\CRF4\12302003\J734372.raw

151 <213> ORGANISM: synthetic
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 156 <222> LOCATION: (1)..(15)
 157 <223> OTHER INFORMATION: GSTpi2 5'primer
 159 <400> SEQUENCE: 7
 160 cacctgggcc gctcc 15
 163 <210> SEQ ID NO: 8
 164 <211> LENGTH: 19
 165 <212> TYPE: DNA
 166 <213> ORGANISM: synthetic
 169 <220> FEATURE:
 170 <221> NAME/KEY: misc_feature
 171 <222> LOCATION: (1)..(19)
 172 <223> OTHER INFORMATION: GSTpi2 3'primer
 174 <400> SEQUENCE: 8
 175 tgtccaccag tgctgcctc 19
 178 <210> SEQ ID NO: 9
 179 <211> LENGTH: 25
 180 <212> TYPE: DNA
 181 <213> ORGANISM: synthetic same error
 184 <220> FEATURE:
 185 <221> NAME/KEY: misc_feature
 186 <222> LOCATION: (1)..(25)
 187 <223> OTHER INFORMATION: GSTpi2 labeling primer
 189 <400> SEQUENCE: 9
 190 tcgggctcta tggcaaagac caaca 25
 193 <210> SEQ ID NO: 10
 194 <211> LENGTH: 16
 195 <212> TYPE: DNA
 196 <213> ORGANISM: synthetic
 199 <220> FEATURE:
 200 <221> NAME/KEY: misc_feature
 201 <222> LOCATION: (1)..(16)
 202 <223> OTHER INFORMATION: GSTpla/1b 5' primer
 204 <400> SEQUENCE: 10
 205 tgtgaggcca tgcgca 16
 208 <210> SEQ ID NO: 11
 209 <211> LENGTH: 21
 210 <212> TYPE: DNA
 211 <213> ORGANISM: synthetic
 214 <220> FEATURE:
 215 <221> NAME/KEY: misc_feature
 216 <222> LOCATION: (1)..(21)
 217 <223> OTHER INFORMATION: GSTpla/1b 3'primer
 219 <400> SEQUENCE: 11
 220 tggtaaccac ctctctcttc c 21
 223 <210> SEQ ID NO: 12
 224 <211> LENGTH: 24

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/734,372

DATE: 12/30/2003

TIME: 13:40:44

Input Set : A:\parkinsonsutility.ST25.txt

Output Set: N:\CRF4\12302003\J734372.raw

225 <212> TYPE: DNA
 226 <213> ORGANISM: synthetic
 229 <220> FEATURE:
 230 <221> NAME/KEY: misc_feature
 231 <222> LOCATION: (1)..(24)
 232 <223> OTHER INFORMATION: GSTpla/1b labeling primer
 234 <400> SEQUENCE: 12
 235 ctgctgactg accagggcca gagc 24
 238 <210> SEQ ID NO: 13
 239 <211> LENGTH: 18
 240 <212> TYPE: DNA
 241 <213> ORGANISM: synthetic
 244 <220> FEATURE:
 245 <221> NAME/KEY: misc_feature
 246 <222> LOCATION: (1)..(18)
 247 <223> OTHER INFORMATION: GST alpha yc 5' primer
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 250 caggctgagc agggctga 18
 253 <210> SEQ ID NO: 14
 254 <211> LENGTH: 17
 255 <212> TYPE: DNA
 256 <213> ORGANISM: synthetic same error
 259 <220> FEATURE:
 260 <221> NAME/KEY: misc_feature
 261 <222> LOCATION: (1)..(17)
 262 <223> OTHER INFORMATION: GST alpha yc 3' primer
 264 <400> SEQUENCE: 14
 265 gcccggtcc agctctt 17
 268 <210> SEQ ID NO: 15
 269 <211> LENGTH: 30
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 271 <213> ORGANISM: synthetic
 274 <220> FEATURE:
 275 <221> NAME/KEY: misc_feature
 276 <222> LOCATION: (1)..(30)
 277 <223> OTHER INFORMATION: GST alpha yc primer
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 280 attgccctgg ttgaactcct ctaccatgtg 30
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 284 <211> LENGTH: 16
 285 <212> TYPE: DNA
 286 <213> ORGANISM: synthetic
 289 <220> FEATURE:
 290 <221> NAME/KEY: misc_feature
 291 <222> LOCATION: (1)..(16)
 292 <223> OTHER INFORMATION: GST alpha GT41A 5' primer
 294 <400> SEQUENCE: 16
 295 gcaatggccg ggaagc 16
 298 <210> SEQ ID NO: 17

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/734,372

DATE: 12/30/2003

TIME: 13:40:44

Input Set : A:\parkinsonsutility.ST25.txt

Output Set: N:\CRF4\12302003\J734372.raw

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299 <211> LENGTH: 21
300 <212> TYPE: DNA
301 <213> ORGANISM: synthetic
304 <220> FEATURE:
305 <221> NAME/KEY: misc_feature
306 <222> LOCATION: (1)..(21)
307 <223> OTHER INFORMATION: GST alpha GT41A 3' primer
309 <400> SEQUENCE: 17
310 acctgatgca ctccattctg c
313 <210> SEQ ID NO: 18
314 <211> LENGTH: 25
315 <212> TYPE: DNA
316 <213> ORGANISM: synthetic
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320 <221> NAME/KEY: misc_feature
321 <222> LOCATION: (1)..(25)
322 <223> OTHER INFORMATION: GST alpha GT41A labeling primer
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335 <221> NAME/KEY: misc_feature
336 <222> LOCATION: (1)..(22)
337 <223> OTHER INFORMATION: GST mu(chr1) 5' primer
339 <400> SEQUENCE: 19
340 caggcacctt atattcgaac cc
343 <210> SEQ ID NO: 20
344 <211> LENGTH: 18
345 <212> TYPE: DNA
346 <213> ORGANISM: synthetic
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351 <222> LOCATION: (1)..(18)
352 <223> OTHER INFORMATION: GST mu(chr1) 3' primer
354 <400> SEQUENCE: 20
355 cgcaggccac aaagtcct
358 <210> SEQ ID NO: 21
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360 <212> TYPE: DNA
361 <213> ORGANISM: synthetic
364 <220> FEATURE:
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366 <222> LOCATION: (1)..(26)
367 <223> OTHER INFORMATION: GST mu(chr1) labeling primer
369 <400> SEQUENCE: 21
370 cgtgacctgga tgccttccta aacctg

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The type of errors shown exist throughout
the Sequence Listing. Please check subsequent
sequences for similar errors.

VERIFICATION SUMMARY

DATE: 12/30/2003

PATENT APPLICATION: US/10/734,372

TIME: 13:40:45

Input Set : A:\parkinsonsutility.ST25.txt

Output Set: N:\CRF4\12302003\J734372.raw

L:15 M:270 C: Current Application Number differs, Replaced Current Application No
L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:125 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:5
L:140 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:6
L:155 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:7